

Applicant **Brown et al.**
Ser. No. **08/621,631**
Fil. Date **March 26, 1996**
For **RECOVERY OF METAL VALUES**
Examiner **Unknown**
Art Unit **Unknown**

HONORABLE COMMISSIONER OF PATENTS
AND TRADEMARKS
Washington, DC 20231

FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S)

U.S. PATENT DOCUMENTS

<u>Examiner Initial</u>	<u>Patent Number</u>	<u>Date</u>	<u>Name</u>	<u>Class/ Subclass</u>	<u>Filing Date</u>	<u>Enclosed</u>
<u>W</u>	2,767,047	Oct. 16, 1956	Wilhelm et al.	23-23	Oct. 20, 1953	Yes
	3,117,833	Jan. 14, 1964	Pierret	23-19	Sept. 25, 1958	Yes
	3,712,939	Jan. 23, 1973	Capps et al.	C22B 59/00	Mar. 29, 1971	Yes
	4,234,555	Nov. 18, 1980	Pulley et al.	G21F 9/12; C02F 1/62	Jun. 9, 1978	Yes
	4,155,982	May 22, 1979	Hunkin et al.	C01G 43/00	Oct. 9, 1974	Yes
	4,233,278	Nov. 11, 1980	Korchnak	C01B 25/22	Mar. 24, 1978	Yes
	4,278,640	Jul. 14, 1981	Allen et al.	C01B 25/234	Mar. 19, 1979	Yes
	4,293,528	Oct. 6, 1981	Paul	C01G 43/01	Nov. 19, 1979	Yes
	4,320,093	Mar. 16, 1982	Volesky et al.	C01G 43/00	Nov. 13, 1979	Yes
	4,412,861	Nov. 1, 1983	Kreuzmann	C22B 60/02	Oct. 27, 1982	Yes
	4,446,115	May 1, 1984	Endo et al.	C01G 35/00	Mar. 2, 1982	Yes
	4,477,416	Oct. 16, 1984	Goddard	C01G 31/00; C01G 31/02	Sep. 27, 1982	Yes
	4,536,034	Aug. 20, 1985	Otto, Jr. et al.	E21B 43/28	Apr. 14, 1983	Yes
	4,778,663	Oct. 18, 1988	Rickelton	C01G 43/00	Aug. 27, 1987	Yes
<u>a</u>	4,923,507	May 8, 1990	Silva, Filho	C22B 1/00	May 19, 1988	Yes

FOREIGN PATENT DOCUMENTS

<u>Examiner Initial</u>	<u>Document Number</u>	<u>Date</u>	<u>Country</u>	<u>Class/ Subclass</u>	<u>Translation</u> <u>Yes</u> <u>No</u>	<u>Enclosed</u>
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EDWARD A. MILLER
PRIMARY EXAMINER
ART UNIT 224

Examiner Patent
Initial

Date

Name

Class/
Subclass

Filing
Date

Enclosed

5,437,848

Aug. 1, 1995

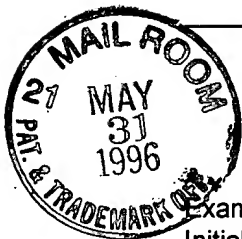
Hard

C01G 56/00;
C01G 57/00

Jul. 10, 1992

Yes

ESS MAIL NO. EM167729893



FOREIGN PATENT DOCUMENTS

Examiner
Initial

Document
Number

Date

Country

Class/
Subclass

Translation
Yes No

Enclosed

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

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Initial

Document

Enclosed

- | | | |
|----|---|-----|
| 1. | Solvent Extraction Principles and Applications to Process Metallurgy, Part II. | Yes |
| 2. | Radioactive Waste Disposal in the Shiprock-Type Uranium Milling Flowsheet by K.E. Tame, E.G. Valdez, and J.B. Rosenbaum. | Yes |
| 3. | Radium Removal from Uranium Ores and Mill Tailings by S.R. Borrowman and P.T. Brooks. | Yes |
| 4. | The Purification of Inorganic Acids by the Amine Liquid Ion Exchange Process by D.W. Agers, J.E. House, J.L. Drobnick and C.J. Lewis. | Yes |
| 5. | Scandium Recovery From a Tantalum Waste Residue: A Status Report by D.D. Harbuck and G.R. Palmer, U.S. Bureau of Mines. | Yes |
| 6. | Evaluation of Scandium Oxide Production from Tantalum Processing Waste, August 1993, edited by G. Kyle Green. | Yes |
| 7. | <u>Scandium Saves Aluminum</u> , Rare-earth Information Center Insight, Ames Laboratory Institute for Physical Research and Technology, Vol. 6, No. 4, April 1, 1993. | Yes |
| 8. | <u>Co-extraction of uranium and thorium</u> , by G.M. Ritcey and B.H. Lucas, April 1972, Journal of Metals, pages 39-44. | Yes |

EXAMINER

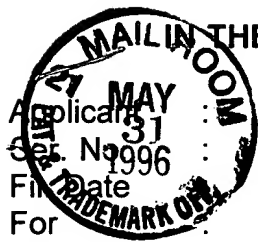
DATE CONSIDERED

EDWARD A. MILLER
PRIMARY EXAMINER

597

EXAMINER: Initial citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Examiner Initial	Patent Number	Date	Name	Class/ Subclass	Filing Date	Enclosed
<u>EL</u>	2,962,372	Nov. 29, 1960	Foos et al.	75-121	Jan. 17, 1958	Yes
	3,658,511	Apr. 25, 1972	Gustison	C22b 51/00	Dec. 22, 1969	Yes
	4,164,417	Aug. 14, 1979	Gustison	C22B 34/24; C22C 27/02	Apr. 28, 1978	Yes
	4,309,389	Jan. 5, 1982	Meyer	C01G 33/00; C01G 35/00	Jul. 1, 1980	Yes
	4,446,116	May 1, 1984	Krismer et al.	C22B 34/24; C22B 60/02	Mar. 24, 1982	Yes
	4,451,438	May 29, 1984	Floeter et al.	C01G 43/00; C01G 33/00; C01G 35/00; C01F 15/00	Sep. 29, 1982	Yes
	4,654,200	Mar. 31, 1987	Nirdosh et al.	C01F 13/00; C01F 15/00	Jun. 1, 1984	Yes
	4,663,130	May 5, 1987	Bergman et al.	C01G 31/00	Nov. 14, 1983	Yes
	4,673,554	Jun. 16, 1987	Niwa et al.	C01G 35/00	Dec. 13, 1985	Yes
	4,695,290	Sep. 22, 1987	Kindig et al.	C10L 9/02; C10L 9/06	Jun. 24, 1985	Yes
	4,743,271	May 10, 1988	Kindig et al.	C10L 9/02; C10L 9/06	May 2, 1984	Yes
	4,753,033	Jun. 28, 1988	Kindig	C10L 9/00	Feb. 5, 1987	Yes
	5,023,059	Jun. 11, 1991	Bielecki et al.	B01D 11/00	Nov. 2, 1988	Yes
	5,209,910	May 11, 1993	Bludssus et al.	C22B 34/20; C01G 33/00; C01G 35/00	Jun. 24, 1991	Yes
	5,273,725	Dec. 28, 1993	Carlson	C01G 56/00	May 29, 1992	Yes
<u>EL</u>	5,384,105	Jan. 24, 1995	Carlson	C01G 33/00	Nov. 15, 1993	Yes